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Manufacturers' Shipments, Inventories, and Orders

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(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods declined \$0.7 billion or 0.4 percent in October to \$146.5 billion the Department of Commerce, Bureau of the Census reported today. This small decline followed an average monthly increase during the third quarter of 1979 of 1.1 percent.

New orders for durable goods declined \$1.6 billion or 2.0 percent to \$76.0 billion. This is an upward revision from the advance report issued on November 21 which showed a 4.2 percent decline. Even with this upward revision, which was due to more complete reporting in the aircraft and primary metals industries, new orders for aircraft declined by \$2.8 billion, a drop of 46 percent from September. Without the aircraft industry, new orders for durable goods increased \$1.2 billion or 1.7 percent to \$72.8 billion. The fabricated metal products and primary metals industries reported the largest order increases, up \$0.7 billion or 8.3 percent and \$0.4 billion or 3.6 percent, respectively. The primary metals order increases occurred in the nonferrous categories, as steel orders declined slightly.

New orders for nondefense capital goods declined \$0.8 billion or 3.8 percent to \$21.0 billion, while defense new orders dropped \$2.0 billion or 46 percent. Both capital goods categories reflected the decline in aircraft orders.

Shipments of manufactured products increased \$2.8 billion or 1.9 percent to \$146.0 billion. This is the largest increase reported since the 6.1 percent rise last May which followed the end of the truckers' strike. Most industries reported increases, the largest occurring in primary metals, up \$0.5 billion or 4.3 percent to \$12.0 billion, fabricated metal products, up \$0.2 billion or 2.5 percent to \$9.2 billion and nonelectrical machinery, up \$0.2 billion or 1.6 percent to \$13.8 billion. In the transportation equipment industries, an increase in automotive shipments of \$0.3 billion or 3.3 percent to \$10.4 billion was offset by a \$0.3 billion decline in aircraft shipments.

Shipments by the household durable goods industries as a group showed a significant increase, up \$0.2 billion or 4.6 percent to \$4.9 billion. Since last March, when the value of shipments for this category reached \$4.7 billion, shipments had been relatively flat.

Shipments of nondurable goods were up \$1.4 billion or 2.0 percent to \$70.6 billion. The largest increase was reported by the foods industries, rising \$0.7 billion or 3.5 percent to \$20.6 billion.

The orders backlog of manufacturers increased \$0.5 billion or 0.2 percent to \$272.5 billion. Increases in unfilled orders for machinery, both electrical and nonelectrical, and fabricated metal products offset declines in all transportation equipment categories and in steel orders.

The orders backlog for nondefense capital goods showed a more significant increase, up \$1.0 billion or 0.8 percent to \$127.2 billion with virtually all categories except complete aircraft rising.

Manufacturers' value of inventories increased \$2.1 billion or 0.9 percent to \$223.5 billion in October. Durable goods manufacturers reported a more significant increase of \$2.1 billion or 1.4 percent to \$148.0 billion. This increase followed a 0.7 percent increase in September, the smallest recorded this year. The value of inventories of nondurable goods manufacturers was unchanged from the September level of \$75.5 billion.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 21, 1979 and the full report is scheduled for release on January 3, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamp not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Without seasonal adjustment ¹																	
		Monthly				Aug.* 1979 ^b				Sept. 1979 ^c				Oct. 1979 ^d				Sept. 1979 ^e				Aug. 1979 ^f				Sept. 1979 ^g					
ALL MANUFACTURING INDUSTRIES																															
Total, excluding transportation, equipment, and defense products.....	145,969	163,201	142,532	161,730	138,960	142,288	134,126	145,403	151,209	148,657	140,375	131,605	147,053	144,304	137,558	148,034	144,304	137,558	140,375	131,605	147,053	144,304	137,558	148,034	144,304	137,558	148,034				
Total, excluding transportation, equipment, and defense products, with unfilled orders.....	130,324	127,578	126,498	126,134	123,531	125,049	116,061	124,686	134,216	132,899	127,236	118,072	129,967	126,114	120,468	128,761	126,114	120,468	127,236	132,899	129,967	126,114	120,468	128,761	126,114	120,468	128,761				
Total for industries with unfilled orders.....	76,227	74,867	75,299	75,058	73,684	75,343	71,283	65,250	78,879	77,923	74,459	68,468	78,659	76,499	71,365	67,066	78,976	77,997	71,560	72,704	78,659	76,499	71,365	67,066	78,976	77,997	71,560	72,704			
Durable goods industries, total.....	75,117	74,012	74,146	73,585	72,659	75,698	70,996	76,655	78,521	76,949	71,365	67,066	78,976	77,997	71,560	72,704	78,659	76,499	71,365	67,066	78,976	77,997	71,560	72,704	78,659	76,499	71,365	67,066			
Durable goods with unfilled orders.....	61,582	60,485	60,936	60,289	59,569	60,974	57,501	62,020	63,508	62,833	59,801	56,927	64,208	62,284	58,909	64,841	60,927	59,801	62,284	58,909	64,208	62,833	59,801	60,927	58,909	64,841	59,801	60,927	58,909		
Nondurable goods industries, total.....	70,552	69,189	68,116	68,145	66,331	66,590	63,130	65,648	72,688	71,708	69,010	64,539	68,077	66,397	63,938	66,397	64,539	68,077	66,397	63,938	68,077	66,397	63,938	66,397	63,938	68,077	66,397	63,938			
Nondurable goods with unfilled orders.....	16,645	16,382	16,363	16,769	14,175	14,369	13,782	13,933	15,371	15,090	14,698	13,561	14,491	14,206	13,795	14,171	14,698	13,561	14,491	14,206	13,795	14,171	14,698	13,561	14,491	14,206	13,795	14,171			
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																															
Market categories:																															
Household durables.....	10,785	10,795	10,750	10,196	10,581	10,381	9,912	10,275	12,012	11,084	11,721	9,580	10,799	9,906	9,635	10,557	9,906	9,635	10,799	9,906	9,635	10,557	9,906	9,635	10,557	9,906	9,635	10,557			
Consumer durables.....	26,392	25,301	24,865	24,421	24,440	24,636	23,840	24,636	25,463	27,433	26,328	24,980	24,203	24,914	23,402	25,005	24,914	23,402	24,980	24,203	24,914	23,402	24,980	24,203	24,914	23,402	24,980	24,203			
Equipment and defense products.....	20,399	20,553	20,446	19,726	19,025	19,331	19,022	19,710	20,155	20,871	19,300	18,045	20,700	19,618	19,300	18,045	20,700	19,618	19,300	18,045	20,700	19,618	19,300	18,045	20,700	19,618	19,300	18,045			
Automotive equipment.....	12,259	11,846	11,935	11,756	11,972	11,749	11,749	13,768	12,490	14,086	12,490	13,667	12,065	9,481	10,166	14,729	13,404	14,729	13,404	14,729	13,404	14,729	13,404	14,729	13,404	14,729	13,404	14,729	13,404		
Construction materials, supplies, and intermediate products.....	12,929	12,626	12,576	12,319	12,429	11,913	12,429	11,913	12,429	12,591	13,491	13,486	13,452	12,364	13,079	12,314	12,314	13,079	12,314	12,314	13,079	12,314	12,314	13,079	12,314	12,314	13,079	12,314			
Other materials and supplies, and intermediate products.....	63,205	62,082	61,961	61,812	60,563	61,663	56,949	61,078	63,847	63,723	61,371	57,237	63,631	62,633	58,702	63,631	62,633	58,702	63,631	62,633	58,702	63,631	62,633	58,702	63,631	62,633	58,702	63,631	62,633		
Supplemental series: ¹																															
Household durable goods industries.....	4,884	4,669	4,665	4,701	4,661	4,557	4,563	4,691	5,261	4,935	4,4038	4,850	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467	4,4467			
Capital goods industries.....	22,990	22,947	22,599	22,169	21,791	21,840	21,840	21,840	21,840	21,840	21,736	20,413	21,768	20,232	23,540	21,988	23,738	21,988	23,540	21,988	23,738	21,988	23,540	21,988	23,738	21,988	23,540	21,988	23,738		
Nonresidential.....	19,972	20,019	20,070	19,846	19,846	19,836	18,762	19,836	18,762	19,836	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762	18,762			
Residential.....	3,010	2,228	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292	2,292			
INDUSTRY GROUPS AND INDUSTRIES																															
Stone, clay, and glass products.....	32	4,027	4,055	4,111	4,072	323	329	3,850	3,903	4,501	4,343	4,386	4,016	4,471	4,263	3,924	3,924	4,263	3,924	3,924	4,263	3,924	3,924	4,263	3,924	3,924	4,263	3,924	3,924	4,263	3,924
Glass containers.....	379	334	328	320	323	329	324	306	367	352	350	331	330	331	330	331	330	331	330	331	330	331	330	331	330	331	330	331	330	331	
Prietary metals, total.....	12,048	11,554	11,787	11,494	12,372	10,405	12,323	12,033	11,907	11,482	10,945	12,599	13,055	13,024	13,122	13,122	13,024	13,122	13,024	13,122	13,024	13,122	13,024	13,122	13,024	13,122	13,024	13,122	13,024		
Blast furnaces, steel mills.....	5,872	5,726	5,787	5,959	5,638	6,351	6,244	5,731	5,712	5,823	5,712	5,603	6,208	5,603	6,208	5,603	6,208	5,603	6,208	5,603	6,208	5,603	6,208	5,603	6,208	5,603	6,208	5,603	6,208		
Nonferrous and other primary metals.....	5,067	4,727	4,823	4,783	4,781	4,882	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491	4,491		
Fabricated metal prod., total.....	9,209	8,987	9,118	9,053	9,040	9,338	8,695	9,781	9,579	9,332	8,677	8,477	9,332	8,477	9,332	8,477	9,332	8,477	9,332	8,477	9,332	8,477	9,332	8,477	9,332	8,477	9,332	8,477	9,332		
Metal cans, barrels, and drums.....	876	829	323	792	810	871	936	806	978	936	806	978	936	806	978	936	806	978	936	806	978	936	806	978	936	806	978	936	806		
Machinery, except electrical, total.....	13,838	13,618	13,407	12,902	13,058	12,719	13,065	13,853	13,881	12,783	12,039	14,043	13,251	13,176	14,164	14,164	13,176	14,164	13,176	14,164	13,176	14,164	13,176	14,164	13,176	14,164	13,176	14,164			
Engines and turbines.....	1,179	1,146	1,161	1,076	1,114	1,144	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,076		
Farm machinery and equipment.....	1,205	1,180	1,246	1,267	1,182	1,073	1,166	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016	1,025	1,016		
Construction, mining, and material handling equipment.....	2,908	2,867	2,766	2,659	2,589	2,642	2,620	2,678	2,740	2,740	2,684	2,890	2,669	2,569	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796		
Metalworking machinery.....	914	844	827	803	786	1,065	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050			
General industrial machinery.....	1,268	1,093	1,129	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093		

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued

SIC	Industry	Seasonally adjusted												Without seasonal adjustment ^a																	
		Monthly			Quarterly			Annual			Industry Groups, and Industries—Continued			Monthly			Quarterly			Annual			Annual								
Oct. 1979 ^b	Sep. 1979 ^b	Aug. 1979 ^b	July 1979	June 1979	May 1979	April 1979	March 1979	Oct. 1979 ^b	Sept. 1979 ^b	Aug. 1979 ^b	July 1979	June 1979	May 1979	Oct. 1979 ^b	Sept. 1979 ^b	Aug. 1979 ^b	July 1979	June 1979	May 1979	Oct. 1979 ^b	Sept. 1979 ^b	Aug. 1979 ^b	July 1979	June 1979	May 1979						
36	Electrical machinery, total, ^c	9,377	9,366	9,218	9,101	9,308	9,157	8,835	9,273	9,791	9,877	9,029	8,178	9,851	8,990	8,873	9,562														
361,2	Electrical transmission and distribution equipment and household appliances.....	1,680	1,701	1,585	1,601	1,689	1,700	1,637	1,695	1,717	1,745	1,534	1,685	1,885	1,718	1,632	1,760	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072					
363	Household appliances.....	1,107	1,073	1,072	1,072	1,077	1,077	1,063	1,141	1,152	1,162	1,112	1,086	1,100	1,178	1,178	1,178	1,178	1,178	1,178	1,178	1,178	1,178	1,178	1,178	1,178	1,178				
365	Business machine equipment.....	2,827	2,915	2,744	2,559	2,631	2,570	2,543	2,401	2,682	2,804	2,839	2,685	2,610	2,709	2,870	2,551	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559					
366	Electronic components.....	1,459	1,332	1,544	1,507	1,530	1,471	1,425	1,433	1,553	1,612	1,472	1,386	1,564	1,662	1,443	1,443	1,443	1,443	1,443	1,443	1,443	1,443	1,443	1,443	1,443	1,443				
367	Transportation equipment, total.....	15,645	15,623	16,034	15,596	15,429	17,239	16,065	17,817	16,933	15,758	13,139	13,583	17,086	18,490	17,050	19,273	13,424	13,424	13,424	13,424	13,424	13,424	13,424	13,424	13,424					
371	Motor vehicles and parts.....	10,407	10,072	10,071	10,086	10,345	12,123	10,748	12,216	11,517	10,210	7,640	8,487	11,587	12,883	11,568	11,568	11,568	11,568	11,568	11,568	11,568	11,568	11,568	11,568	11,568	11,568				
372,6	Aircraft, missiles, and parts.....	3,465	3,803	4,051	3,876	3,425	3,561	3,533	3,839	3,597	3,767	3,731	3,522	3,713	3,635	3,574	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027	4,027			
3731	Shipbuilding and military tank vehicles.....	768	733	707	686	616	707	645	836	735	704	682	736	627	784	636															
38	Instruments and related products, total.....	3,095	3,139	3,066	3,096	3,028	2,943	2,873	3,026	3,026	3,246	3,021	3,246	3,021	3,211	2,847	3,058	1,870	1,870	1,870	1,870	1,870	1,870	1,870	1,870	1,870	1,870	1,870	1,870		
381-4	Scientific and engineering products.....	1,127	1,133	1,138	1,172	1,176	1,173	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176	1,176				
386	Photographic goods.....	1,104	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,084				
24	All other durable goods industries.....	8,005	7,698	7,591	7,589	7,356	7,447	7,534	7,682	8,525	8,399	8,193	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938				
39	Nondurable Goods Industries																														
20	Food and kindred products, total.....	20,635	19,943	19,518	19,770	19,296	19,418	18,772	19,651	21,429	20,623	19,344	18,863	19,604	19,668	18,754	19,875	15,232	15,232	15,232	15,232	15,232	15,232	15,232	15,232	15,232	15,232	15,232	15,232	15,232	15,232
201	Meat products.....	5,163	4,947	4,952	4,996	5,077	5,263	5,184	5,301	5,318	4,987	5,007	4,906	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137	5,137			
208	Beverages.....	2,405	2,313	2,396	2,257	2,285	2,289	2,257	2,257	2,257	2,357	2,423	2,394	2,423	2,423	2,423	2,423	2,423	2,423	2,423	2,423	2,423	2,423	2,423	2,423	2,423	2,423				
207	Fats and oils.....	1,727	1,721	1,581	1,721	1,766	1,766	1,560	1,569	1,482	2,300	2,300	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764	1,764				
20-	All other foods.....	8,654	8,191	7,810	7,988	7,616	7,605	7,396	7,624	9,147	8,667	7,779	7,301	7,540	7,886	7,886	7,886	7,886	7,886	7,886	7,886	7,886	7,886	7,886	7,886	7,886	7,886	7,886			
6,9	Tobacco products.....	1,163	1,064	1,021	1,142	863	1,027	964	1,008	1,208	1,036	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042	1,042				
21	Paper and allied products, total.....	3,943	3,973	3,903	4,060	3,984	3,914	3,859	3,856	4,204	4,234	3,944	4,207	3,948	3,858	3,858	3,858	3,858	3,858	3,858	3,858	3,858	3,858	3,858	3,858	3,858	3,858	3,858			
26	Paper, paper, etc., total.....	5,688	5,544	5,634	5,838	5,613	5,479	5,412	5,527	5,793	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795	5,795				
261-3	Paperboard containers.....	2,635	2,565	2,586	2,561	2,516	2,516	2,336	2,445	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558				
265	Rubber and plastic products, total.....	1,271	1,191	1,238	1,221	1,196	1,220	1,196	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220				
266	All other paper containers.....	1,782	1,788	1,810	2,076	1,767	1,878	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740			
28	Chemicals and allied products, total.....	13,029	12,705	12,410	12,552	12,419	11,577	12,225	12,927	13,472	12,228	11,818	13,175	12,998	12,476																
281,6	Industrial chemicals, except pigments.....	4,462	4,463	4,443	4,406	4,345	4,305	4,037	4,241	4,319	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449	4,449				
283,6	Oranges, soap, and toiletries.....	3,569	3,328	3,273	3,669	3,349	3,157	3,251	3,157	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251	3,251			
29	Petroleum and coal products, total.....	12,324	12,281	11,885	10,977	10,757	10,622	9,867	10,331	12,209	12,351	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968	11,968					
30	Rubber products, total.....	3,756	3,730	3,773	3,759	3,704	3,809	3,635	3,913	3,988	3,825	3,804	3,615	3,923	3,812	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145		
23	All other nondurable goods industries.....	10,014	9,964	9,972	9,767	9,716	9,768	9,064	9,237	10,991	10,802	10,680	9,307	9,664	9,210	9,257															
27																															
31																															

^aPreliminary.^bRevised.^cAdjusted for trading-day or calendar-month variations.

Household furniture—kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks;

Capital goods industries—airplane and aircraft manufacturing; electrical machinery; electrical equipment; household appliances; radio and TV and electronic components; and the manufacture of industrial and railroad equipment; communication equipment; aircraft and aircraft parts; and ordnance products.

Defense products—based on separate reports on defense work filed by defense contractors in the following industries: Ordnance communication equipment; shipbuilding.

The data are comparable to those published annually in the Ma-175. Shipments of Defense-Related Industries, for the specified industries.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES
 (Millions of dollars)

Industry		without seasonal adjustment															
		Monthly			Quarterly			Monthly									
Oct. 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	April 1979	March 1979	Feb. 1979	Jan. 1979	Oct. 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	April 1979	March 1979
All manufacturing industries:																	
Total, excluding transportation, and total for industries with unfilled orders	146,496	147,154	142,664	140,508	142,269	143,594	139,332	148,586	150,964	160,488	162,360	149,983	144,733	142,739	153,972		
Durable goods industries, total	111,240	128,831	126,434	124,634	124,683	124,628	120,957	128,584	132,511	136,962	117,401	130,760	125,585	124,129	132,911		
Durable goods industries, unfilled orders	76,754	78,820	75,451	73,836	76,993	77,565	76,489	85,633	80,890	80,230	69,223	81,129	77,822	77,885	61,208		
Non durable goods industries, total	75,389	77,560	74,039	72,545	75,320	77,327	76,099	83,088	80,573	78,998	71,203	67,926	81,410	78,568	78,341	66,971	
Non durable goods industries, unfilled orders	62,154	64,033	60,549	59,249	62,700	76,649	62,604	82,036	65,560	64,882	59,639	55,787	66,642	76,919	63,690	84,950	
Industries with unfilled orders, total	70,507	69,594	68,635	67,963	66,449	66,567	63,233	65,498	72,647	71,966	69,285	64,434	68,073	66,165	66,398	67,001	
Industries with unfilled orders, unfilled orders	14,600	14,787	14,882	14,587	14,293	14,346	13,885	13,783	15,330	15,348	14,973	13,436	14,487	14,064	14,195	14,058	
Industries without unfilled orders, total	55,907	54,807	53,753	53,376	52,156	51,305	49,348	48,118	57,317	56,618	54,312	50,998	53,586	51,198	50,203	49,259	
Market categories and supplementary series																	
Market categories: Durable goods and apparel	10,159	10,896	10,787	10,313	10,818	10,094	10,105	10,448	11,397	12,030	11,758	9,712	11,128	9,731	9,925	10,788	
Durable goods and apparel, standard articles	26,380	25,296	24,875	25,428	25,210	24,696	25,356	24,765	27,631	26,545	24,995	26,242	26,335	23,716			
Durable goods and apparel, except automotive equipment	20,061	23,039	20,042	19,744	19,330	21,392	20,011	22,414	23,442	18,996	19,256	21,424	20,757	20,672	24,426		
Automotive equipment	12,098	11,473	11,475	11,473	12,128	13,442	12,152	13,755	13,194	12,094	9,233	10,000	13,469	13,335	13,531	15,140	
Construction materials, supplies, fixtures, and intermediate products	12,781	12,547	12,670	12,431	12,046	12,449	12,326	13,071	13,264	13,288	13,527	12,342	13,405	13,042	13,816	12,937	
Other materials and supplies and intermediate products	64,337	62,795	61,119	62,837	61,521	60,184	62,536	65,120	63,597	61,959	56,808	65,132	62,530	62,019	65,747		
Supplementary series: 2 Household durable goods industries	4,580	4,657	4,530	4,855	4,308	4,744	4,838	4,934	5,266	4,959	4,144	5,105	4,325	4,688	4,901		
Capital goods industries	23,292	26,045	23,770	23,536	24,383	23,980	27,079	26,200	26,502	22,588	21,188	23,665	23,721	23,881	27,591		
Non defense industries	20,979	20,737	21,815	20,732	21,753	20,965	21,680	23,978	22,556	22,266	20,238	19,426	20,082	20,126	24,558		
Defense industries	2,283	4,230	3,633	2,264	2,197	3,213	3,101	3,634	4,226	2,338	2,395	2,003	2,995	2,465	3,031		
Industry groups and industries																	
Industries: Stone, clay and glass	4,186	4,053	3,991	4,235	3,953	4,182	4,088	3,892	4,337	4,445	4,285	4,124	4,387	4,249	4,233	3,980	
Petroleum, coal and gas	12,130	10,707	10,937	11,031	11,476	11,720	11,082	11,037	10,955	10,225	9,549	12,178	12,173	12,156	12,338		
Blast furnaces, steel mills	5,578	5,649	5,503	5,110	5,476	5,219	6,833	5,7265	4,849	4,240	4,429	5,650	5,759	6,338	7,536		
Nonferrous and other primary metal products	5,341	5,104	4,728	5,050	4,756	4,658	4,921	5,202	4,951	4,924	4,924	5,071	5,320	5,071	5,461		
Fabricated metal products	9,473	8,745	9,268	8,994	8,978	9,477	9,036	10,509	9,657	9,339	9,528	8,592	9,765	9,725	9,195	10,664	
Industries: Glassware, plastic products	13,401	13,105	13,302	13,140	12,772	14,988	14,193	13,864	12,741	12,252	14,691	13,273	13,469	13,865			
Stone, clay and glass	10,983	11,707	10,937	11,031	11,476	11,720	11,082	11,037	10,955	10,225	9,549	12,178	12,173	12,156	12,338		
Engines and turbines	1,181	2,184	2,732	2,732	2,732	2,565	2,161	2,161	2,052	2,052	2,052	1,288	2,627	2,604	2,902		
Construction, mining, and quarrying	2,936	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,199	9,467	2,587	2,902		
Material handling and equipment	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Machinery, except electrical	14,039	13,401	13,105	13,302	13,140	12,772	14,988	14,193	13,864	12,741	12,252	14,691	13,273	13,469	13,865		
Industries: Electrical machinery	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285		
Construction, mining, and quarrying	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285	2,285		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Manufacturing industries	1,070	1,238	1,070	1,238	1,070	1,238	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,069		
Gas, water and sewerage services	1,070	1,238	1,070	1,238	1,070	1,238	1,0										

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURER'S NEW ORDERS FOR INDUSTRY GROUP, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	Seasonally adjusted Monthly												without seasonal adjustment ¹					
		Oct. 1979 ^p			Sept. 1979 ^r			Aug. 1979			July 1979			June 1979			May 1979		
		1979 ^p	1979 ^r	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979
361,2	Electrical machinery, total....	9,673	9,796	9,833	8,867	9,690	9,587	9,362	9,676	10,059	10,402	9,651	8,423	10,300	9,397	9,412	9,921		
Industrial transmission and industrial power equipment and industrial machinery.....	1,786	1,657	1,772	1,759	1,811	1,768	1,803	1,668	1,799	1,736	1,730	1,653	1,887	1,717	1,891	1,717			
Household and office equipment and household appliances.....	1,098	1,069	1,032	1,064	1,060	1,064	1,060	910	1,093	1,133	1,054	1,047	1,046	1,180	1,075	1,067	1,075	1,059	
Radio and TV.....	348	638	697	522	88	389	386	2,578	3,061	2,986	2,810	453	436	935	338	329	659		
Communication equipment.....	2,962	3,115	2,871	2,379	3,048	2,578	3,048	2,384	2,810	1,627	2,755	2,386	2,746	2,456	2,892	2,456	2,892	2,917	
Electronic components.....	2,153	1,762	1,671	1,700	1,595	1,784	1,715	1,715	1,784	1,672	1,722	1,672	1,722	1,722	1,790	1,659	1,863	1,775	
363	Transportation equipment, total.....	18,256	18,333	16,220	15,874	17,586	18,946	18,373	20,002	18,829	18,453	13,526	14,959	18,723	19,148	18,610			
365	Aircraft, missiles, and parts.....	5,936	4,562	4,361	6,046	5,343	5,712	5,547	5,563	6,189	4,453	4,883	5,761	4,704	4,846	5,544			
366	Shipbuilding and military tank vehicles.....	755	802	975	593	245	924	862	917	978	766	684	619	652	760	956	893		
372,6	Instruments and related products.....	3,170	3,239	3,084	3,023	3,183	2,960	2,840	3,188	3,286	3,387	3,117	2,827	3,402	2,934	2,938	3,253		
379,1	All other durable goods industries.....	8,032	7,734	7,515	7,310	7,370	7,445	7,244	7,796	8,423	8,341	8,130	7,200	7,964	7,759	8,028	7,970		

^rPreliminary.^pRevised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. The separate industry categories are as follows:

Household durable goods industries - Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks and miscellaneous personal goods industries. The capital goods industries are comprised of the previous products. Capital goods and the defense products (old series) categories, encompass electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense products of shipbuilding and repairing and rail road equipment. Construction and machine tools, aircraft and ordnance, defense products-based on separate reports on defense work filed by defense contractors in the following industries: aircraft, ships, aircraft and ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MS-175. Shipments of defense-oriented industries, for the specified industries, are the totals for the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows: Capital goods industries - Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks and miscellaneous personal goods industries. The capital goods industries are comprised of the previous products. Capital goods and the defense products (old series) categories, encompass electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense products of shipbuilding and repairing and rail road equipment. Construction and machine tools, aircraft and ordnance, defense products-based on separate reports on defense work filed by defense contractors in the following industries: aircraft, ships, aircraft and ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MS-175. Shipments of defense-oriented industries, for the specified industries, are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENT SERIES
 (Millions of dollars)

five footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

See footnotes at end of tables.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES—Continued

Continued

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¹Shipments and new orders are revised.

trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories. Capital goods industries include electrical machinery and equipment and machine shops, electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondense portions of shipbuilding and repairing and railroad equipment, aircraft and aircraft parts, and ordnance.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP (millions of dollars)

Industry	Seasonally adjusted												Without seasonal adjustment													
	Monthly			Oct. 1979			Sept. 1979			Aug. 1979			July 1979			June 1979			May 1979			April 1979			March 1979	
All manufacturing industries, total...	233,519	221,417	219,137	216,560	214,339	211,085	209,178	205,889	222,764	219,375	217,893	214,979	213,818	212,423	210,291	207,094	204,377	201,797	199,217	197,597	196,077	194,557	193,037	191,517	189,996	
Durable goods industries, total.....	148,019	149,927	144,966	143,369	141,700	139,502	137,903	135,278	146,051	146,618	144,370	142,752	142,041	140,597	139,064	136,660	135,234	134,813	134,392	133,971	133,550	133,129	132,708	132,287	131,866	
Stone, clay, and glass products.....	5,437	5,443	5,429	5,372	5,332	5,344	5,246	5,344	5,252	5,246	5,380	5,445	5,406	5,449	5,411	5,486	5,452	5,422	5,422	5,422	5,422	5,422	5,422	5,422	5,422	5,422
Petroleum, coal, and coke products.....	18,148	19,063	18,529	18,535	18,171	18,038	17,761	18,197	18,845	18,845	18,573	18,573	18,487	18,487	18,487	18,487	18,487	18,487	18,487	18,487	18,487	18,487	18,487	18,487	18,487	18,487
Fabricated metal products.....	18,186	18,063	18,156	18,226	18,034	18,036	17,886	18,236	18,093	18,093	18,688	18,688	18,441	18,441	18,441	18,441	18,441	18,441	18,441	18,441	18,441	18,441	18,441	18,441	18,441	18,441
Nonmetallic mineral products, except oil and gas.....	35,355	35,133	36,637	35,522	35,353	35,353	35,509	35,353	35,353	35,353	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	36,637	
Electrical machinery, apparatus, and equipment.....	19,856	19,488	18,190	19,015	18,714	18,714	18,228	18,066	18,664	18,664	19,257	19,257	19,129	19,129	19,129	19,129	19,129	19,129	19,129	19,129	19,129	19,129	19,129	19,129	19,129	
Transportation equipment.....	29,424	28,536	28,219	27,945	27,125	27,421	27,717	29,430	28,639	28,639	27,421	27,421	27,421	27,421	27,421	27,421	27,421	27,421	27,421	27,421	27,421	27,421	27,421	27,421		
Instruments and related products.....	7,471	7,456	7,486	7,336	7,212	7,109	7,036	7,212	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438	7,438		
All other durable goods industries.....	11,934	11,734	11,724	11,606	11,405	11,334	11,249	11,271	11,614	11,614	11,570	11,570	11,570	11,570	11,570	11,570	11,570	11,570	11,570	11,570	11,570	11,570	11,570	11,570		
Nondurable goods industries, total.....	75,500	75,690	74,171	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583	71,583		
Chemicals and allied products.....	16,614	18,382	16,267	16,022	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901	15,901		
Petroleum and coal products.....	6,378	6,354	5,957	5,957	5,903	5,903	5,888	5,903	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888	5,888		
Rubber and plastics products, n.e.c.	4,795	4,962	4,947	4,870	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888	4,888		
All other nondurable goods industries.....	47,173	45,392	45,360	45,387	46,521	45,295	45,688	45,392	46,067	46,067	47,233	47,233	46,583	46,583	46,583	46,583	46,583	46,583	46,583	46,583	46,583	46,583	46,583	46,583	46,583	
All manufacturing industries, total...	76,917	75,751	75,758	74,053	73,285	73,285	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937	71,937		
Durable goods industries, total.....	46,382	45,912	45,524	44,854	44,504	44,538	44,854	44,504	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750	43,750		
Stone, clay, and glass products.....	7,113	7,008	6,950	6,950	6,844	6,731	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	6,644	
Fabricated metal products.....	6,646	6,589	6,565	6,520	6,520	6,520	6,420	6,420	6,330	6,330	6,349	6,349	6,349	6,349	6,349	6,349	6,349	6,349	6,349	6,349	6,349	6,349	6,349	6,349		
Nonmetallic mineral products, except oil and gas.....	9,029	9,229	9,748	9,521	9,521	9,521	9,374	9,069	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081	9,081		
Electrical machinery, apparatus, and equipment.....	5,766	5,668	5,549	5,549	5,521	5,521	5,443	5,443	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227		
Transportation equipment.....	8,244	7,977	8,310	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926	7,926		
Instruments and related products.....	2,233	2,274	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279	2,279		
Nondurable goods industries, total.....	29,647	29,366	29,364	28,400	28,400	28,400	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079	28,079		
Chemicals and allied products.....	5,907	5,873	5,851	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884	5,884		
Petroleum and coal products.....	1,851	1,774	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771	1,771		
Rubber and plastics products, n.e.c.	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717	1,717			
All other nondurable goods industries.....	20,172	20,012	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723	19,723			
All manufacturing industries, total...	76,772	75,718	74,374	73,554	72,796	72,796	71,223	70,144	68,638	75,344	75,344	75,344	75,344	75,344	75,344	75,344	75,344	75,344	75,344	75,344	75,344	75,344	75,344			
Durable goods industries, total.....	63,820	62,776	62,036	61,491	59,975	59,975	57,656	57,656	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991	64,991			
Stone, clay, and glass products.....	819	826	827	827	823	823	802	802	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771		
Fabricated metal products.....	6,870	6,945	6,827	6,827	6,767	6,767	6,485	6,485	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244	6,244			
Nonmetallic mineral products, except oil and gas.....	7,712	7,746	7,696	7,696	7,671	7,671	7,394	7,394	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263	7,263			
Electrical machinery, apparatus, and equipment.....	16,766	16,393	16,304	15,977	15,744	15,744	15,434	15,434	15,143	15,143	14,985	14,985	14,822	14,822	14,761	14,761	14,690	14,690	14,629	14,629	14,568	14,568	14,506			
Transportation equipment.....	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687	19,687			
Instruments and related products.....	2,664	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558	2,558			
Nondurable goods industries, total.....	11,952	11,950	11,998	11,348	11,348	11,348	11,126	11,126	11,126	10,982	10,982	10,982	10,982	10,982	10,982	10,982	10,982	10,982	10,982	10,982	10,982	10,982	10,982			
Chemicals and allied products.....	2,623	2,623	2,623	2,623	2,623	2,623	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597	2,597			
Petroleum and coal products.....	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985	1,985			
Rubber and plastics products, n.e.c.	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882			
All other nondurable goods industries.....	21,060	21,080	20,788	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815	20,815			

All manufacturing industries, total.....

Durable goods industries, total.....

Stone, clay, and glass products.....

Petroleum and coal products.....

Rubber and plastics products, n.e.c.

All other durable goods industries.....

Nondurable goods industries, total.....

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGE
(Based on seasonally adjusted data)

Item and industry group	Month-to-month								Average monthly rates of change			Average, 1973-1978	
									3 months			Average rise	Average decline
	Sept.-Oct. 1979	Aug.-Sept. 1979	July-Aug. 1979	June-July 1979	May-June 1979	April-May 1979	March-April 1979	Feb.-March 1979	July-Oct. 1979	April-July 1979	Jan.-April 1979		
Shipments:													
All manufacturing industries.....	+1.9	+0.5	+0.6	+2.0	-2.3	+6.1	-5.9	+4.8	+1.0	+1.9	-0.2	+1.6	-1.2
Durable goods industries, total.....	+1.9	-0.5	+1.1	+1.3	-4.1	+6.6	-7.6	+4.4	+0.8	+1.3	-0.7	+1.9	-1.7
Nondurable goods industries, total.....	+2.0	+1.6	0.0	+2.7	-0.4	+5.5	-3.8	+5.3	+1.2	+2.6	+0.5	+1.5	-0.9
Total inventories:													
All manufacturing industries.....	+0.9	+1.0	+1.2	+1.0	+1.5	+0.9	+1.7	+1.0	+1.0	+1.1	+1.4	+0.9	-0.3
New orders:													
All manufacturing industries.....	-0.4	+3.1	+1.5	+1.2	-0.9	+3.1	-6.2	+3.2	+1.4	+0.3	-0.5	+1.9	-1.8
Durable goods industries, total.....	-2.0	+4.8	+2.0	-4.3	-1.6	+1.2	-8.4	+2.2	+1.6	-1.6	-1.6	+3.4	-1.9
Nondurable goods industries, total.....	+1.3	+1.4	+1.0	+2.3	-0.2	+5.3	-3.5	+4.4	+1.2	+2.5	+0.6	+1.6	-0.8
Unfilled orders:													
Durable goods industries, total.....	+0.2	+1.4	-0.2	-0.4	+1.2	+0.5	+2.1	+2.6	+0.5	+0.4	+2.7	+1.4	-0.8

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio								Unfilled orders--shipments ratio ¹ (months' backlog)							
	Oct. 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Apr. 1979	Mar. 1979	Oct. 1979	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	Apr. 1979	Mar. 1979
All manufacturing industries, total.....	1.53	1.55	1.54	1.53	1.54	1.48	1.56	1.44	3.57	3.63	3.56	3.57	3.65	3.53	3.71	3.41
Durable goods industries, total.....	1.96	1.97	1.95	1.95	1.95	1.84	1.94	1.76	4.24	3.76	4.22	4.27	4.36	4.19	4.42	4.01
Stone, clay, and glass products.....	1.31	1.31	1.32	1.32	1.32	1.29	1.31	1.32	0.81	0.84	0.82	0.84	0.80	0.82	0.87	0.79
Primary metals.....	1.59	1.55	1.62	1.58	1.62	1.47	1.79	1.44	2.50	2.53	2.40	2.78	2.57	3.16	2.55	2.55
Fabricated metals.....	2.04	2.08	2.04	2.05	2.06	1.95	2.08	1.82	3.35	3.41	3.38	3.60	3.32	3.55	3.13	3.13
Machinery, except electrical.....	2.60	2.61	2.58	2.61	2.64	2.57	2.59	2.49	4.55	4.65	4.62	4.78	4.84	4.77	4.84	4.70
Electrical machinery.....	2.12	2.08	2.08	2.09	2.01	2.02	2.06	1.95	3.73	3.71	3.72	3.70	3.64	3.66	3.75	3.51
Transportation equipment.....	1.88	1.83	1.76	1.79	1.78	1.57	1.64	1.44	11.84	11.58	10.86	11.28	11.55	10.71	10.66	9.77
Instruments and related products.....	2.41	2.38	2.49	2.47	2.42	2.43	2.47	2.34	1.91	1.86	1.91	1.88	1.86	1.85	1.91	1.80
Nondurable goods industries, total.....	1.07	1.09	1.09	1.07	1.10	1.07	1.13	1.07	0.77	0.74	0.72	0.75	0.73	0.76	0.75	0.79
Food and kindred products.....	0.96	1.00	0.99	0.97	0.99	0.95	0.97	0.92	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Tobacco products.....	3.18	3.57	3.65	3.16	4.44	3.40	3.71	3.56	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Textile mill products.....	1.32	1.43	1.46	1.40	1.42	1.45	1.34	1.30	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.15	1.16	1.12	1.15	1.16	1.12	1.15	1.09	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.28	1.31	1.31	1.25	1.27	1.29	1.28	1.27	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.52	0.52	0.50	0.51	0.50	0.48	0.53	0.49	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.28	1.33	1.31	1.33	1.31	1.28	1.34	1.20	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)

(NA) Not available.

^aPreliminary. ^bRevised. ^c(X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; diecut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Export Sales and Orders

Shipments of Defense-Oriented Industries

Processed Foods

Textile Mill Products

Apparel and Leather

Lumber, Furniture, and Paper Products

Chemicals, Rubber, and Plastics

Stone, Clay, and Glass Products

Primary Metals

Intermediate Metal Products

Machinery and Equipment

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